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**DOCKET NO.: SWAB-0003/1770-322US** 

**PATENT** 

N THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

David Harbec, et al.

Confirmation No.: 2219

**Application No.: 10/535,050** 

Group Art Unit: Not Yet Assigned

Filing Date: January 30, 2006

**Examiner: Not Yet Assigned** 

METHOD FOR PRODUCING CARBON NANOTUBES USING A DC NON-

TRANSFERRED THERMAL PLASMA TORCH

DATE OF DEPOSIT: March 28, 2006

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGÉ PREPAID, THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA,

TYPED NAME: Elizabeth A. McLoud

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

## INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

 $\boxtimes$ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified application, within three months of the date of entry into the national stage of Receipt date: 03/30/2006 10535050 - GAU: 4181

## DOCKET NO.: SWAB-0003/1770-322US-2-

**PATENT** 

	the above identified application as set forth in § 1.491, before the mailing date
	of a first Office Action on the merits of the above-identified application, or
	before the mailing date of a first Office Action after the filing of request for
	continued examination under § 1.114, no additional fee is required.
	In accordance with § 1.97(c), this Information Disclosure Statement is being
	filed after the period set forth in § 1.97(b) above but before the mailing date of
	either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or
	before an action that otherwise closes prosecution in the application, therefore:
	Certification in Accordance with § 1.97(e) is attached; or
	The fee of $$180.00$ as set forth in § 1.17(p) is attached.
	In accordance with § 1.97(d), this Information Disclosure Statement is being
	filed after the mailing date of either a Final Action under § 1.113 or a Notice
	of Allowance under § 1.311 but before, or simultaneously with, the payment
	of the Issue Fee, therefore included are: Certification in Accordance with §
	1.97(e); and the submission fee of <u>\$180.00</u> as set forth in § 1.17(p).
$\boxtimes$	Copies of reference numbers $1 - 8$ and $28 - 32$ listed on the attached Form
	PTO-1449 are enclosed herewith.
$\boxtimes$	Copies of reference numbers 9 - 27 on the attached Form PTO 1449 are not
	required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).
	Copies of references - are not being submitted because
	they were previously cited by or submitted to the U.S. Patent and
	Trademark Office in patent application number , filed for
	which a claim for priority under 35 U.S.C. § 120 has been made in the
	instant application.

Receipt date: 03/30/2006 10535050 - GAU: 4181

DO	CKET	NO.:	SWAB-0003/1770-322US-3	_

PATENT

The relevance of those listed references which are not in the English language is as follows:

There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-

John W. Galdwell

Registration No. 28,937

3050. This form is submitted in duplicate.

Date: MMh 24 2006

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		-1449 Modified	Docket No SWAB-00 1770-3220	003/	Application No. 10/535,050	
Ci (Use sev	ited b eral s	t and Publications by Applicant heets if necessary)	Applicant David Harbec, et al.			
		nent of Commerce Frademark Office	Filing Dat January 30		Group Not Yet Assigned	
			Confirmat 2219	ion No.		
ГО	THE	R DOCUMENTS (Includ	ling Author	, Title, Date, I	Pertinent Pages, Etc.)	
	1 2 3 4 5	and Applications, Institute Section 1.1.2.5, v-viii; 16 Eschenbach, et al., "Plase Metallurgical Processing Hahn, J., et al., "New contained by a thermal processing Roth, J.R., Industrial Plate 1, Principles, Table of Consilipanic, O., "Gas-phase	Applications, Institute of Physics Publishing, 1994, Vol. 1, Table of Contents and tion 1.1.2.5, v-viii; 16-19 henbach, et al., "Plasma torches and plasma torch furnaces," Plasma Techn. In tallurgical Processing, no date available, Chapter 7, 77-87 1987 C.B./ un, J., et al., "New continuous gas-phase synthesis of high purity carbon otubes by a thermal plasma jet," Carbon, 2004, 877-883 h, J.R., Industrial Plasma Engineering, Institute of Physics Publishing, 1995, Vol. Principles, Table of Contents, v – viii			
	6	jet," Chemical Physics L Tian, Y., et al., "Preparate 2002, 1 page (Abstract)			aterial," Derwent Publications,	
	7	nanorods at low tempera	ture," J. Ph	ys. Chem. B, <b>2</b> 0		
	8	Yoshikawa, H., "Manufa Service, Accession No. 1			r nanotubes," Chemical Abstract bstract) 1997 /C.B./	
EXAMINER	/Ca	ırlos Barcena/		DATE CONS	SIDERED 07/19/2010	



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## Form PTO-1449 Modified

List of Patent and Publications Cited by Applicant (Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office

Docket No.
SWAB-0003/
1770-322119

Application No. 10/535,050

Applicant

David Harbec, et al.

Filing Date January 30, 2006 Group

2006 Not Yet Assigned

Confirmation No. 2219

## **U. S. PATENT DOCUMENTS**

Examiner		Document	Data	None		G 1 1
Initial		No.	Date	Name	Class	Subclass
	9	5,147,998	09/15/92	Tsantrizos, et al.	219	121.5
	10	5,227,038	07/13/93	Smalley, et al.	204	173
	11	5,395,496	03/17/95	Tsantrizos, et al.	204	173
	12	5,482,601	01/09/96	Ohshima, et al.	204	173
	13	5,753,088	05/19/98	Olk	204	173
	14	5,985,232	11/16/99	Howard, et al.	423	447.3
	15	6,063,243	05/16/00	Zettl, et al.	204	164
	16	6,083,469	07/04/00	Leftin	423	445 B
	17	6,099,696	08/08/00	Schwob, et al.	204	173
	18	6,162,411	12/19/00	Howard, et al.	423	445
	19	6,221,330 B1	04/24/01	Moy, et al.	423	447.3
	20	6,261,532 B1	07/17/01	Ono	423	447.3
	21	6,303,094 B1	10/16/01	Kusunoki, et al.	423	447.1
	22	6,331,209 B1	12/18/01	Jang, et al.	117	90
	23	6,333,016 B1	12/15/01	Resasco, et al.	423	447.3
	24	6,350,488 B1	02/26/02	Lee, et al.	427	249.1
	25	6,451,175 B1	09/17/02	Lal	204	173
	26	6,455,021 B1	09/24/02	Saito	423	447.3
EXAMINER	/(	Carlos Barcena/	·	DATE CONSIDERED	07/19/201	0



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Form PTO-1449 Modified  List of Patent and Publications Cited by Applicant (Use several sheets if necessary)  U.S. Department of Commerce Patent and Trademark Office				SWAB-0003/ 1770-322US	Application No. 10/535,050		
				Applicant David Harbec, et al.			
				Filing Date January 30, 2006	et Assigned		
				Confirmation No. 2219			
		U. \$	S. PATENT	T DOCUMENTS			
Examiner Initial		Document No.	Date	Name		Class	Subclass
11111111	27	2003/0211030 A1	11/13/03	Olivier, et al.		423	447.3
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		FORE	IGN PATE	ENT DOCUMENT	S		
Examiner Initial		Document No.	Date	Country		YES	nslation NO
	28	0 565 275 A1	10/13/93	EP			1,0
	29	WO 03/008331 A1	01/20/03	PET WIPO	/C.B./		
	30	WO 03/062146 A1	07/31/03	PCT WIPO	/C.B./		
,	31	WO2004/046030 A1	06/03/04	PCT WIPO	/C.B./		
	32	2 499 850	01/10/06	Canada			
EXAMINE	<b>R</b> /C	Carlos Barcena/		DATE CONSIDI	RED	07/19/2010	. 1

Docket No.